

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Revision date 03-Dec-2024

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Code(s)	Product Family: GXT5 Series, PSI5 Series, EDGE Series, APS Series, GXTRT Series, PSA5 Series, itON Series
Product Name	Valve Regulated Lead-Acid Battery
Synonyms	VRLA
Pure substance/mixture	Mixture
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Recommended use	Uninterruptible Power Supply (UPS)
Uses advised against	None
1.3. Details of the supplier of the	safety data sheet
Vertiv S.r.I. Ve	anufacturer ertiv Group Corporation 05 N Cleveland Ave /esterville, OH 43082
For further information, please c	ontact

1.4. Emergency telephone number

Emergency telephone

0800 1155 4499 / 0800 296 837

Emergency telephone - §45 - (EC	1272/2008
Europe	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product is not hazardous in supplied solid form. This product is an article which is a sealed battery and does not require an SDS unless ruptured. The hazards indicated are for a ruptured battery. As supplied, this product is an article. This product contains a battery. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals. The information below relates to the mixture of components contained within the battery.

Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
Skin corrosion	Category 1 Sub-category A - (H314)
Serious eye damage	Category 1 - (H318)
Reproductive toxicity	Category 1A - (H360FD)
Effects on or via lactation	Yes - (H362)
Hazardous to the aquatic environment - acute	Category 1 - (H400)
Hazardous to the aquatic environment - chronic	Category 1 - (H410)

2.2. Label elements Contains Sulfuric acid

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.

H330 - Fatal if inhaled.

H360FD - May damage fertility. May damage the unborn child.

H362 - May cause harm to breast-fed children.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.

P260 - Do not breathe dusts or mists.

P263 - Avoid contact during pregnancy and while nursing.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P320 - Specific treatment is urgent (see supplemental first aid instructions on this label).

P391 - Collect spillage.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Unknown acute toxicity

81.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 6 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

 2.3. Other hazards
 No information available.

 PBT & vPvB
 None known

 Endocrine Disruptor Information
 This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH	EC No (EU	Classification	Specific	M-Factor	M-Factor	Notes
		registration	Index No)	according to	concentration		(long-ter	
		number		Regulation (EC) No.	limit (SCL)		m)	
				1272/2008 [CLP]				
Lead	65-80	No data	231-100-4	Repr. 1A (H360FD)	-	-	10	-
7439-92-1		available	(082-014-00-7)	Lact. (H362)				
				Aquatic Chronic 1				
				(H410)				
Sulfuric acid	14-20	No data	231-639-5	Skin Corr. 1A (H314)	Eye Irrit. 2 ::	-	-	В
7664-93-9		available	(016-020-00-8)	Carc. 1A	5%<=C<15%			
					Skin Corr. 1A			
					:: C>=15%			
					Skin Irrit. 2 ::			
					5%<=C<15%			
ABS resin	5	No data	-	No data available	-	-	-	-
9003-56-9		available						
Glass fiber	1-2	No data	266-046-0	[C]	-	-	-	-
65997-17-3		available						
Tin	<0.5	No data	231-141-8	[C]	-	-	-	-
7440-31-5		available						

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[*C*] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapour - mg/L	
			mg/L		
Sulfuric acid	2140	No data available	0.375	No data available	No data available
7664-93-9					
Tin	700	2002	No data available	No data available	No data available
7440-31-5					

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Lead	7439-92-1	Х

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Do not breathe dust. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation.
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.
4.3. Indication of any immediate me	edical attention and special treatment needed
Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
SECTION 5: Firefighting m	neasures
5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
5.2. Special hazards arising from the	e substance or mixture
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Specific hazards arising from the
chemicalThe product causes burns of eyes, skin and mucous membranes. Thermal decomposition
can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment and
precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of

	dust. Do not breathe dust. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Attention! Corrosive material.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
6.3. Methods and material for conta	ainment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information See section 13 for more information
SECTION 7: Handling and	storage
7.1. Precautions for safe handling	-

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials.

Storage class (TRGS 510) LGK 6.1A.

7.3. Specific end use(s)

Specific use(s) Lead acid battery.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Lead TWA: 0.03 mg/m³ TWA: 0.1 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ TWA: 0.1 mg/m³ TWA: 2 mg/m³ TWA: 0.1 mg/m³ TWA: 0.1 mg/m³ TWA: 0.1 mg/m³ TWA: 0.05 mg/m	Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
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7664-93-9 STEL 0.2 mg/m ³ TWA: 10 mg/m ³ TWA: 0.1 mg/m ³ Glass fiber - - - Tim TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ Ohemical name Cyprus Czash Rapublic Demmik Estonia Finland Julian TWA: 0.05 mg/m ³						
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Tin TWA: 2 mg/m³		-	-	TWA: 10 mg/m ³	-	-
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65997-17-3Image: constraint of the second secon	Lead 7439-92-1 Sulfuric acid	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³	-	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³
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Chemical nameLuxembourgMaltaNetherlandsNorwayPolandLeadTWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³7439-92-1TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.15 mg/m³TWA: 0.05 mg/m³Sulfuric acidTWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³7664-93-9TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TinTWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³7440-31-5PortugalRomaniaSlovakiaSloveniaSpainLeadTWA: 0.05 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³Sulfuric acidTWA: 0.2 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³Sulfuric acidTWA: 0.2 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³Glass fiberTWA: 5 mg/m³6597-17-3TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TinTWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³7440-31-5TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³	- TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³
7439-92-1 STEL: 0.15 mg/m³ Sulfuric acid 7664-93-9 TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.1 mg/m³ TWA: 0.05 mg/m³ Tin 7440-31-5 TWA: 2 mg/m³ Chemical name Portugal Romania Slovakia Slovenia Spain Lead TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ Sulfuric acid TWA: 0.2 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ Sulfuric acid TWA: 0.2 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ Glass fiber TWA: 5 mg/m³ - - - - - Tin TWA: 2 mg/m³ Tin TWA: 2 mg/m³ Tin TWA: 2 mg/m³ TWA: 2 mg/m³ TWA: 2 mg/m³ TWA: 2 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - - TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - -	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ -	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ -
Sulfuric acid 7664-93-9 TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.1 mg/m³ TWA: 0.05 mg/m³ Tin 7440-31-5 TWA: 2 mg/m³ Chemical name Portugal Romania Slovakia Slovenia Spain Lead TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.11 mg/m³ TWA: 0.15 mg/m³ Sulfuric acid TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ Sulfuric acid TWA: 0.2 mg/m³ TWA: 0.05 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - -	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³ Norway	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ Poland
Tin 7440-31-5 TWA: 2 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - -	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³ Norway TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ Poland
Chemical namePortugalRomaniaSlovakiaSloveniaSpainLeadTWA: 0.05 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³TWA: 0.15 mg/m³7439-92-1TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.15 mg/m³Sulfuric acidTWA: 0.2 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³TWA: 0.05 mg/m³Glass fiberTWA: 5 mg/m³65997-17-3TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TinTWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³TWA: 2 mg/m³7440-31-5TWA: 2 mg/m³TWA: 2 mg/m³TWA: 8 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - Malta -	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³ Norway TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³
Lead TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - - Malta - TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.3 mg/m ³ TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³
Sulfuric acid 7664-93-9 TWA: 0.2 mg/m³ TWA: 0.05 mg/m³ TWA	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - - Malta - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.1 mg/m ³ STEL: 0.3 mg/m ³ STEL: 4 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³
7664-93-9 STEL: 0.05 mg/m³ Glass fiber 65997-17-3 TWA: 5 mg/m³ - - - Tin 7440-31-5 TWA: 2 mg/m³ Ceiling: 4 mg/m³ Ceiling: 4 mg/m³ TWA: 8 mg/m³ TWA: 2 mg/m³ TWA: 2 mg/m³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - - - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ Romania	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ Slovakia TWA: 0.15 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³
65997-17-3 TWA: 2 mg/m³ TWA: 2 mg/m³ <td>Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead 7439-92-1</td> <td>TWA: 0.15 mg/m³ STEL: 0.45 mg/m³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m³ STEL: 6 mg/m³ Luxembourg TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ Portugal TWA: 0.05 mg/m³</td> <td>TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ - - - - TWA: 0.05 mg/m³ TWA: 2 mg/m³ TWA: 2 mg/m³ TWA: 0.15 mg/m³</td> <td>TWA: 0.05 mg/m³ TWA: 0.2 mg/m³ - TWA: 5 mg/m³ TWA: 2 mg/m³ Netherlands TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ TWA: 2.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³</td> <td>- TWA: 0.05 mg/m³ TWA: 5 mg/m³ - TWA: 2 mg/m³</td> <td>TWA: 0.15 mg/m³ TWA: 0.07 mg/m³ TWA: 0.05 mg/m³ STEL: 3 mg/m³ - TWA: 2 mg/m³ Poland TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 2 mg/m³ Spain TWA: 0.15 mg/m³</td>	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead 7439-92-1	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ Portugal TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ Spain TWA: 0.15 mg/m ³
7440-31-5 Sk* TWA: 8 mg/m ³ Ceiling: 4 mg/m ³	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7439-92-1 Sulfuric acid 7664-93-9	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ Netherlands TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ Spain TWA: 0.15 mg/m ³
	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Glass fiber 65997-17-3	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - Malta - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ -	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 5 mg/m ³ - TWA: 2 mg/m ³ Norway TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.3 mg/m ³ STEL: 0.3 mg/m ³ STEL: 4 mg/m ³ STEL: 4 mg/m ³ STEL: 0.4 mg/m ³ STEL: 0.4 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.05 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.05 mg/m ³ S	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³
	Lead 7439-92-1 Sulfuric acid 7664-93-9 ABS resin 9003-56-9 Glass fiber 65997-17-3 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Tin 7440-31-5 Chemical name Lead 7439-92-1 Sulfuric acid 7664-93-9 Glass fiber 65997-17-3 Tin	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³ TWA: 0.05 ppm STEL: 0.15 ppm - TWA: 2 mg/m ³ STEL: 6 mg/m ³ Luxembourg TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ - - - Malta - TWA: 0.05 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.2 mg/m ³ - TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³	- TWA: 0.05 mg/m ³ TWA: 5 mg/m ³ - TWA: 5 mg/m ³ - TWA: 2 mg/m ³ Norway TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.3 mg/m ³ STEL: 0.3 mg/m ³ STEL: 4 mg/m ³ STEL: 4 mg/m ³ STEL: 0.4 mg/m ³ STEL: 0.4 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³ TWA: 0.05 mg/m ³ STEL: 3 mg/m ³ - TWA: 2 mg/m ³ Poland TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.15 mg/m ³ TWA: 0.05 mg/m ³

Lead	NGV: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.15 mg/m ³
7439-92-1	NGV: 0.05 mg/m ³	STEL: 0.8 mg/m ³	STEL: 0.45 mg/m ³
Sulfuric acid	NGV: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³
7664-93-9	Vägledande KGV: 0.2 mg/m ³	STEL: 0.2 mg/m ³	STEL: 0.15 mg/m ³
Glass fiber 65997-17-3	NGV: 1 fiber/cm3	-	-
Tin 7440-31-5	NGV: 2 mg/m ³	TWA: 0.004 ppm TWA: 0.02 mg/m ³ TWA: 0.003 ppm TWA: 0.015 mg/m ³ STEL: 0.004 ppm STEL: 0.02 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Lead	30 µg/100 mL -	120 µg/100 mL RBC	300 µg/L - blood	400 µg Pb/L - blood	13 µmol/mmol
7439-92-1	blood (Lead) - no	Erythrocyte	(Lead) - not fixed	(Lead) - not critical	Creatinine (urine -
	restriction	protoporphyrin -	400 µg/L - blood	300 µg Pb/L - blood	5-Aminolevulinic
	0.015 mg/m ³ - air	blood	(Lead) - not fixed	(Lead) - not critical	acid discretionary)
	(Lead) - 40 hours	(Ethylenediaminetet		15 U/LE - blood	0.035 µmol/mmol
	per week	raacetic acid) - not		(.deltaAminolevulin	Creatinine (urine -
	15 µg/100 mL -	provided		ic acid dehydratase)	Coproporphyrin
	blood (Lead) - no	30 µg/100 mL blood		- not critical	discretionary)
	restriction	Lead - blood		1.50 mg/LE - blood	15 mg/g Creatinine
		(Ethylenediaminetet		(Protoporphyrin in	(urine -
		raacetic acid) - not		erythrocytes) - after	5-Aminolevulinic
		provided		exposure during 2-3	acid discretionary)
		3.8 million/µL		months (sample	0.2 mg/g Creatinine
		Erythrocytes - blood		protected from light)	(urine -
		(Ethylenediaminetet		70 µg Pb/100 mL -	Coproporphyrin
		raacetic acid) - not provided		blood (Lead) - if the exposure to the	discretionary) 0.4 mg/L (blood -
		12 g/dL Hemoglobin		concentration of	Lead discretionary)
		- blood		Lead in the air is	Leau discretionary)
		(Ethylenediaminetet		greater than 0.075	
		raacetic acid) - not		mg/m ³ , calculated as	
		provided		a time-weighted	
		35 % Hematocrit -		average during 40	
		blood		hours per week, or if	
		(Ethylenediaminetet		the level of Lead in	
		raacetic acid) - not		the blood of	
		provided		individual workers is	
		10 mg/L - urine		greater than 40 µg	
		(.deltaAminolevulin		Pb/100 mL of blood	
		ic acid) - not			
		provided			
		3.2 million/µL			
		Erythrocytes - blood			
		(Ethylenediaminetet			
		raacetic acid) - not			
		provided			
		10 g/dL Hemoglobin			
		- blood (Ethylenediaminetet			
		raacetic acid) - not			
		provided			
		30 % Hematocrit -			
		blood			
		(Ethylenediaminetet			
L					

		6 delt.)	cetic acid) - not provided mg/L - urine aAminolevulin c acid) - not provided					
Chemical name Lead	Denmark 20 µg/100 mL (blood	1 / 1	Finland		nce L - blood	Germany DF 150 µg/L (wh		Germany TRGS 150 µg/L (whole
7439-92-1	- Lead)	Lea doe 50	ad time of day es not matter) μg/dL (blood - Lead) μg/dL (blood - Lead)	(Lea 180 µg/l (Lead) - i sampli 300 µg/l (Lea 200 µg/l (Lea 100 µg/l	ad) - L - blood ndifferent ng time L - blood ad) - L - blood ad) - L - blood ad) -	blood - Lead restriction) 150 μg/L - BAT restriction in sto state) blood 30 μg/L - BAR restriction in sto state) blood 40 μg/L - BAR restriction in sto state) blood	no (no eady d (no eady d (no eady	blood - Lead no restriction)
Chemical name	Hungary		Ireland	-		/ MDLPS		Italy AIDII
Lead 7439-92-1	_		70 μg/100 mL Lead not ci >40 μg/100 ml Lead not ci 30 μg/100 mL Lead not ci	itical) _ (blood - itical) _ (blood -		100 mL (blood - workweek)		µg/100 mL - blood .ead) - not critical
Chemical name	Latvia		Luxembo	,	R	omania		Slovakia
Lead 7439-92-1	-		70 μg/100 ml (Lead) 0.075 mg/m³ - a 40 μg/100 ml (Lead)	- iir (Lead) - - blood -	end 70 µg/10 (Lead) 3 mg/cm end 10 m (.delta/ acid) - 300 µ (Copropor 100 µ Erythrocy Erythrocy	- urine (Lead) - d of shift 20 mL - blood - end of shift - hair (Lead) - d of shift g/L - urine Aminolevulinic end of shift ug/L - urine phyrin) - end of shift ug/100 mL te - blood (free throcytes ohyrin) - end of shift	100 .delta .delta 0 Cc	 µg/L (blood - Lead not critical) µg/L (blood - Lead not critical) 15 mg/L (urine - aAminolevulinic acid not critical) 6 mg/L (urine - aAminolevulinic acid not critical) 0.30 mg/L (urine - oproporphyrins not critical)
Chemical name	Slovenia	1)	Spain			itzerland		United Kingdom
Lead 7439-92-1	400 μg/L - blood (Lea not relevant 300 μg/L - blood (Lea not relevant		70 μg/dL (bloc not critic		Lead no 1.93 µmol - Lead n 100 µg/L Lead no 0.48 µmol	(whole blood - o restrictions) /L (whole blood o restrictions) (whole blood - o restrictions) /L (whole blood o restrictions)		-

Note 1: Details about BEL values can be found in Annex 2 of the Austrian Ordinance on Health Monitoring in the Workplace.

Derived No Effect Level (DNEL) - Workers

Oran Definal Initialation

Chemical name	Oral	Dermal	Inhalation
Sulfuric acid 7664-93-9	-	-	0.05 mg/m ³ [5] [6] 0.1 mg/m ³ [5] [7]
Tin 7440-31-5	-	10 mg/kg bw/day [4] [6]	71 mg/m³ [4] [6]

Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Tin	5 mg/kg bw/day [4] [6]	-	17 mg/m³ [4] [6]
7440-31-5			

Notes

[4]	Systemic health effects.
[6]	Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Lead 7439-92-1	2.4 µg/L	-	3.3 µg/L	-	-
Sulfuric acid 7664-93-9	0.0025 mg/L	-	0.00025 mg/L	-	-

Chemical name	Freshwater	Marine sediment	Sewage treatment	Soil	Food chain
	sediment				
Lead	186 mg/kg sediment	168 mg/kg sediment	100 µg/L	212 mg/kg soil dw	10.9 mg/kg food
7439-92-1	dw	dw			
Sulfuric acid	0.002 mg/kg	0.002 mg/kg	8.8 mg/L	-	-
7664-93-9	sediment dw	sediment dw			

8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment	
Eye/face protection	None required for end-use. If contents are released: Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.
Hand protection	None required for end-use. If contents are released: Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

Skin and body protection	None required for end-use. If contents are released: Long sleeved clothing. Wear suitable protective clothing. Chemical resistant apron. (EN ISO 6529).
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid containing liquid	
Physical state	Solid	
Colour	Varies	
Odour	Characteristic	
Odour threshold	No information available	
Property_	Values	Remarks • Method
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
рН		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Vapour pressure		No data available
Relative density		No data available
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available
9.2. Other information		
Molecular weight	No information available	
VOC content	0.0%	
Softening point	No information available	
9.2.1. Information with regards to p	hysical hazard classes	
No information available		
Explosives	Nie information (1.1.1.	
Explosive properties	No information available	
Oxidising properties	No information available	
9.2.2. Other safety characteristics		
No information available		

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity		
Reactivity	None under normal use conditions.	
10.2. Chemical stability		
Stability	For the lead component: When oxygen is present, it will be eroded by pure water and the weak organic acid. At normal temperature, it will be eroded by fluorine or chlorine.	
	For the sulfuric component: At first, vapor is generated by heating and generate sulfuric acid vapors if continue to heat. Rapid contact with water might generate a large amount of heat, and sometimes the acid is scattered. Dilute sulfuric acid, which is generated by diluting with water, generates hydrogen gas by the corrosion of various metals and may cause flash explosion by mixing with air.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	Lead component: React violently with combustible materials and organic matter (sulfuric acid, hydrogen peroxide, phosphoric acid), and it may cause risk of fire.	
	Sulfuric acid component: Reacts violently with bases and is corrosive to most common metals forming a flammable/explosive gas (hydrogen).	
10.4. Conditions to avoid		
Conditions to avoid	Excessive heat. Exposure to air or moisture over prolonged periods.	
10.5. Incompatible materials		
Incompatible materials	Acids. Bases. Oxidising agent.	
10.6. Hazardous decomposition pro	oducts_	

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including

	blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or v	wheezing. Difficulty in breathing. Redness.	Burning. May cause blindness.
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Acute toxicity Fatal if inhaled.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:ATEmix (oral)>2,000 mg/kgATEmix (inhalation-dust/mist)0.359 mg/l

Unknown acute toxicity

81.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 0.375 mg/L (Rat) 4 h
Tin	= 700 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.75 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Lead	Repr. 1A
	Lact.

STOT - single exposure	Based on available data, the classification criteria are not met.
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STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met

11.2.2. Other information

Other adverse effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity

Contains 6 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Lead	-	LC50: =0.44mg/L (96h,	-	EC50: =600µg/L (48h,
7439-92-1		Cyprinus carpio)		water flea)
		LC50: =1.17mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =1.32mg/L (96h,		
		Oncorhynchus mykiss)		
Sulfuric acid	-	LC50: >500mg/L (96h,	-	-
7664-93-9		Brachydanio rerio)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Lead	PBT assessment does not apply

7439-92-1	
Sulfuric acid 7664-93-9	The substance is not PBT / vPvB
Glass fiber 65997-17-3	PBT assessment does not apply
Tin 7440-31-5	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects	No information available.
PMT or vPvM properties	Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

<u>IATA</u>

14.1 UN number or ID number	UN2800
14.2 UN proper shipping name	Batteries, wet, non-spillable
14.3 Transport hazard class(es)	8
14.4 Packing group	Not regulated
Description	UN2800, Batteries, wet, non-spillable, 8
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	A48, A67, A164, A183
ERG Code	8L
Note:	None
IMDG	
14.1 UN number or ID number	UN2800
14.2 UN proper shipping name	Batteries, wet, non-spillable
14.3 Transport hazard class(es)	8
14.4 Packing group	Not regulated
Description	UN2800, Batteries, wet, non-spillable, 8
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	238 F-A S-B
14.7 Maritime transport in bulk	No information available
according to IMO instruments	

RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special precautions for userSpecial ProvisionsClassification code	UN2800 BATTERIES, WET, NON-SPILLABLE 8 Not applicable UN2800, BATTERIES, WET, NON-SPILLABLE, 8 No 238, 295, 598 C11
 ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code 	In accordance with ADR Special Provision 238 Subject batteries are classified as Non-spillable and have been tested and meet the non-spillable criteria listed in SP 238 (a) and (b) UN2800 BATTERIES, WET, NON-SPILLABLE 8 Not regulated UN2800, BATTERIES, WET, NON-SPILLABLE, 8 No 238, 295, 598 C11 (E)
ADN 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions Classification code Equipment Requirements	UN2800 BATTERIES, WET, NON-SPILLABLE 8 Not applicable UN2800, BATTERIES, WET, NON-SPILLABLE, 8 No 238, 295, 598 C11 PP, EP

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Lead - 7439-92-1	RG 1
Glass fiber - 65997-17-3	RG 42

Germany

Water hazard class (WGK) Chemical Prohibition Ordinance (ChemVerbotsV) slightly hazardous to water (WGK 1)

nce This product is subject to requirements and restrictions regarding handling and delivery

Chemical name	Chemical Prohibition Ordinance (ChemVerbotsV)
Lead 7439-92-1	1.2
Sulfuric acid 7664-93-9	1.2

TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
Lead	5.2.2	Class II
Tin	5.2.2	Class III

TRGS 905 Not applicable

Netherlands

Carcinogenic, mutagenic and reproductive toxic effects

Chemical name	Netherlands - List of	Netherlands - List of Mutagens	
Lead - 7439-92-1	- -		Reproductive Toxins Development Category 1A;powder, particle diameter <1 mm Fertility Category 1A;powder, particle diameter <1 mm Can be harmful via breastfeeding powder, particle diameter <1 mm Development Category 1A;solid, particle diameter >=1 mm Fertility Category 1A;solid, particle diameter >=1 mm Can be harmful via breastfeeding solid, particle diameter >=1 mm
Sulfuric acid - 7664-93-9	Present	-	-

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018	Not applicable
Storage of Hazardous Material	SC 8
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20	Class B
Major Accidents Ordinance SR 814.012	Not applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Lead - 7439-92-1	72	-
	30	
	63	
	75	
Sulfuric acid - 7664-93-9	75	-
Tin - 7440-31-5	75	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Lead - 7439-92-1	l.1

Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Lead - 7439-92-1	Priority substance

EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Lead - 7439-92-1	Priority substance

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H314 - Causes severe skin burns and eye damage

H360FD - May damage fertility. May damage the unborn child

H362 - May cause harm to breast-fed children

H410 - Very toxic to aquatic life with long lasting effects

P260 - Do not breathe dusts or mists

P271 - Use only outdoors or in a well-ventilated area

P284 - In case of inadequate ventilation wear respiratory protection

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P310 Immediately call a POISON CENTER or doctor
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

- P264 Wash face, hands and any exposed skin thoroughly after handling
- P280 Wear protective gloves, protective clothing, eye protection and face protection
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P308 + P313 - IF exposed or concerned: Get medical advice/attention

P263 - Avoid contact during pregnancy and while nursing

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P391 - Collect spillage

Legend

ACGIH	American Conference of Governmental Industrial Hygienists	
AIDII	Italian Association of Industrial Hygienists	
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)	
AIIC	Australian Inventory of Industrial Chemicals	
ATE	Acute Toxicity Estimate	
ASTM	American Society for the Testing of Materials	
bar	Biological Reference Values for Chemical Compounds in the Work Area	
BAT	Biological tolerance values for occupational exposure	
BEL	Biological exposure limits	
bw	Body weight	
Ceiling	Maximum limit value	
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008	
CMR	Carcinogen, Mutagen or Reproductive Toxicant	
DFG	German Research Foundation	
DOT	Department of Transportation (United States)	
DSL	Domestic Substances List (Canada)	
ECHA	European Chemicals Agency	
EC Number	European Community number	
EmS	Emergency Schedule	
ENCS	Existing and New Chemical Substances (Japan)	
EPA	Environmental Protection Agency	
EWC	European Waste Codes	
GHS	Globally Harmonized System	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk	
ICAO	International Civil Aviation Organisation	
IECSC	Inventory of Existing Chemical Substances in China	
IMDG	International Maritime Dangerous Goods	
IMO	International Maritime Organization	
ISO	International Organisation for Standardisation	
KECI	Korean Existing Chemicals Inventory	
LC50	Lethal Concentration to 50% of a test population	
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)	
MAL	Measuring Technical Hygienic Air Needs	
MARPOL	International Convention for the Prevention of Pollution from Ships	
MDLPS	Ministry of Labour and Social Policy	
n.o.s.	Not Otherwise Specified	
NOAEC	No Observed Adverse Effect Concentration	
NOAEL	No Observed Adverse Effect Level	
NOELR	No Observable Effect Loading Rate	
NZIoC	New Zealand Inventory of Chemicals	
OECD	Organization for Economic Cooperation and Development	
OEL	Occupational exposure limits	

PBT	Persistent, Bioaccumulative and Toxic substance	
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
PMT	Persistent, Mobile and Toxic	
PPE	Personal protective equipment	
QSAR	Quantitative Structure Activity Relationship	
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)	
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)	
SADT	Self-Accelerating Decomposition Temperature	
SAR	Structure-activity relationship	
SDS	Safety Data Sheet	
SL	Surface Limit	
STEL	Short Term Exposure Limit	
STOT RE	Specific target organ toxicity - Repeated exposure	
STOT SE	Specific target organ toxicity - Single exposure	
SVHC	Substance of very high concern	
TCSI	Taiwan Chemical Substance Inventory	
TDG	Transport of Dangerous Goods (Canada)	
TRGS	Technical Rule for Hazardous Substances	
TSCA	Toxic Substances Control Act (United States)	
TWA	Time-Weighted Average	
UN	United Nations	
VOC	Volatile organic compounds	
vPvB	Very Persistent and Very Bioaccumulative	
vPvM	Very Persistent and Very Mobile	
Sen+	Sensitiser	
Sk*	Skin designation	
**	Hazard Designation	

Classification procedure			
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used		
Acute oral toxicity	Calculation method		
Acute dermal toxicity	Calculation method		
Acute inhalation toxicity - gas	Calculation method		
Acute inhalation toxicity - vapour	Calculation method		
Acute inhalation toxicity - dust/mist	Calculation method		
Skin corrosion/irritation	Calculation method		
Serious eye damage/eye irritation	Calculation method		
Respiratory sensitisation	Calculation method		
Skin sensitisation	Calculation method		
Mutagenicity	Calculation method		
Carcinogenicity	Calculation method		
Reproductive toxicity	Calculation method		
STOT - single exposure	Calculation method		
STOT - repeated exposure	Calculation method		
Chronic aquatic toxicity	Calculation method		
Acute aquatic toxicity	Calculation method		
Aspiration hazard	Calculation method		
Ozone	Calculation method		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC) European Chemicals Agency (ECHA) (ECHA_API) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization uina Dat 00 0 - - 0004

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End of Safety Data Sheet